

# Section XI: Capital Investment

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## INTRODUCTION

A crucial aspect of the Town's operations, from providing services to its residents and businesses to equipping employees to effectively perform their jobs, requires the existence of certain basic physical assets. These assets include streets, water mains, parks, buildings, large equipment and technology. They must be purchased, maintained and replaced on a timely basis or their usefulness in providing public services will diminish. The Town's five-year Capital Improvements Program and annual Capital Budget are developed to ensure adequate capital investment in the Town's assets.

## DEFINITION OF CAPITAL PROJECTS

A capital project is defined as a major, non-recurring expenditure that generally meets all of the following criteria:

- Massachusetts General Laws permit the Town to issue bonds to finance the expenditure;
- The expenditure is \$25,000 or more;
- The expenditure will have a useful life of 10 years or more for buildings or building components and 5 years for vehicles and equipment; and
- Planning, engineering, or design services may be considered capital when such services are integral to a construction, renewal, or replacement project that meets the criteria for a capital expenditure.

## CAPITAL POLICY FRAMEWORK

The FY2016 Capital Budget was developed within the capital policy framework initially adopted by the Board of Selectmen in 1991, and subsequently amended in 2006 and 2009 to ensure adequate planning and funding for capital investment, particularly cash capital projects within the general fund. This capital investment strategy includes the following major elements:

- Multi-year planning for capital investment;
- Debt exclusions for major capital projects; and
- Ensuring sufficient operating budget resources for maintaining capital assets.

## FIVE-YEAR CAPITAL PROGRAM

Five-year capital improvement planning has been part of Lexington's budget development process for many years. Multi-year planning allows proper staging and sequencing of capital projects to smooth financing plans and to make funding needs more predictable. Capital investment requirements can vary, involving unique large projects such as a fire vehicle or a school building. Other capital investment needs are recurring such as the annual program to resurface roadways.

The five-year Capital Improvement Program includes all anticipated capital projects identified by school and municipal departments over the next five years.

The following are potential funding sources for financing the Town's capital investments:

- **Cash Financing** – The Town regularly appropriates available funds (i.e., cash financing) from the general and enterprise funds to finance certain capital investment projects. Examples of available funds are unreserved fund balance (free cash), tax levy, enterprise fund retained earnings, specialized stabilization funds and, when available, unexpended balances of prior years' capital articles.
- **Debt** – The Town has traditionally financed large dollar value capital projects with debt. Depending upon the project, the debt service resulting from debt-funded capital projects can be financed from a variety of sources including the General Fund (either within the Levy Limit or from a voter approved Proposition 2 ½ debt exclusion), Enterprise and Revolving Funds or the Community Preservation Fund (see discussion of the CPA below).
- **Other Sources** – The Town uses dedicated state aid and grant funding to finance capital investment when these funds are available.
- **Community Preservation Act (CPA) Funds** – Beginning in FY07, following voter approval, the Town began to assess a Community Preservation Surcharge of 3% of the property tax levied against all taxable real property. For owners of residential property, the assessed value used to calculate the surcharge is net of a \$100,000 residential exemption. Community Preservation funds can be used for those purposes defined by the Community Preservation Act, MGL Ch. 44B. Such purposes include the acquisition and preservation of open space, the creation and support of community (affordable) housing, the acquisition and preservation of historic resources, and the creation and support of recreational facilities. Beginning in FY08, the Town began to receive State matching funds to supplement the local surcharge. Receipts for FY16 from the surcharge and state matching funds are preliminarily estimated at \$5 million.

## FY 2016 CAPITAL FINANCING STRATEGY

The proposed financing plan for the recommended FY2016 capital budget is shown in the table below.

<b>Capital Requests Summary</b>				
	<b>Free Cash/Tax Levy</b>	<b>Other Financing Sources <sup>1</sup></b>	<b>Debt</b>	<b>Total</b>
General Fund	\$ 4,871,905	\$ -	\$ 18,687,025	\$ 23,558,929
Chapter 90/Other Funding	\$ -	\$ 1,135,605		\$ 1,135,605
Water Enterprise	\$ -	\$ 1,015,500	\$ -	\$ 1,015,500
Sewer Enterprise	\$ -	\$ 1,390,500	\$ 1,200,000	\$ 2,590,500
Recreation Enterprise	\$ -	\$ 261,500	\$ -	\$ 261,500
Compost Revolving Fund	\$ -	\$ -	\$ 690,000	\$ 690,000
Community Preservation Act <sup>2</sup>	\$ -	\$ 2,540,601	\$ -	\$ 2,540,601
<b>Total (all Funds)</b>	<b>\$ 4,871,905</b>	<b>\$ 6,343,706</b>	<b>\$ 20,577,025</b>	<b>\$31,792,635</b>
<sup>1</sup> Chapter 90/Other Funding includes \$961,105 in Chapter 90 Aid for street improvements, \$57,000 in PEG Access Revolving Fund monies for Cary Memorial wireless nodes, \$82,500 from the School Food Service Revolving Fund for cafeteria equipment at LHS, and \$35,000 from the Cemetery Fund for the assessment of the building at the Westview Cemetery.				
<sup>2</sup> Includes both Town and non-Town CPA funded projects.				

The following table, FY2016 Recommended Capital Budget, lists all FY2016 projects recommended by the Town Manager for consideration and their estimated costs by program area and funding source. The Capital Expenditures Committee has also been evaluating these requests and will issue a report and recommendations to Town Meeting.

<b>FY 2016 Recommended Capital Budget</b>			
<b>Department</b>	<b>Project Description</b>	<b>Recommendation</b>	<b>Requested Funding Source(s)</b>
<i>Community Development</i>	Conservation Meadows Preservation Program	\$ 26,400	CPA
<i>Community Development</i>	Lower Vine Brook Paved Recreation Path Reconstruction	\$ 369,813	CPA
<i>Community Development</i>	Acquisition of Wright Farm - Parcel 2	\$ 755,000	CPA
<i>Economic Development</i>	Grain Mill Alley Additional Design	\$ 18,000	CPA
<b>Total Community/Economic Development</b>		<b>\$ 1,169,213</b>	
<i>Fire &amp; Rescue</i>	Fire Pumper	\$ 500,000	GF Debt
<i>Police/Fire &amp; Rescue</i>	Police/Fire Dispatching and Records Software	\$ 705,900	GF Debt/Free Cash
<i>Police</i>	Parking Meter Replacement	\$ 500,000	Debt/Parking Meter Fund
<i>Fire &amp; Rescue</i>	Public Safety Radio Stabilization, Phase 1	\$ 90,000	Free Cash
<i>Police</i>	Design/Engineering - Firing Range at Hartwell Ave. Site	\$ 50,000	Free Cash
<b>Total Public Safety</b>		<b>\$ 1,845,900</b>	
<i>Rec. &amp; Community Programs</i>	Lincoln Park Field Improvements	\$ 650,000	GF Debt/Recreation RE/CPA
<i>Rec. &amp; Community Programs</i>	Park and Playground Improvements	\$ 68,000	CPA
<i>Rec. &amp; Community Programs</i>	Park Improvements - Athletic Fields	\$ 85,000	CPA
<i>Rec. &amp; Community Programs</i>	Park and Playgrounds ADA Accessibility Study	\$ 78,000	CPA
<i>Rec. &amp; Community Programs</i>	Park Improvements- Hard Court Resurfacing	\$ 55,000	CPA
<i>Rec. &amp; Community Programs</i>	Pine Meadows Equipment	\$ 68,000	Recreation RE
<b>Total Culture and Recreation</b>		<b>\$ 1,004,000</b>	
<i>Public Facilities</i>	Middle School Space Mining	\$ 674,000	GF Debt
<i>Public Facilities</i>	Clarke Middle School Circulation and Parking Improvements, Design	\$ 363,000	GF Debt
<i>Public Facilities</i>	LHS Phase 2 Overcrowding/Completion	\$ 90,200	GF Debt
<i>Public Facilities</i>	Major Mechanical/Electrical Systems' Replacement	\$ 463,000	GF Debt
<i>Public Facilities</i>	Lexington Public School' Educational Capacity Increase - Short and Long Term	\$ 4,080,000	GF Debt
<i>Public Facilities</i>	LHS Heating Systems Upgrade Phases 2 & 3 - Design 2	\$ 150,000	GF Debt
<i>Public Facilities</i>	School Building Envelope and Systems	\$ 210,000	Free Cash
<i>Public Facilities</i>	Municipal Building Envelope and Systems	\$ 182,760	Tax Levy
<i>Public Facilities</i>	School Building Flooring Program	\$ 125,000	Free Cash
<i>Public Facilities</i>	School Paving Program	\$ 150,000	Free Cash
<i>Public Facilities</i>	School Interior Painting Program	\$ 133,425	Free Cash
<i>Public Facilities</i>	Public Facilities Bid Documents	\$ 75,000	Free Cash
<i>Public Facilities</i>	Diamond Middle School Lighting to Rear Parking Lot	\$ 77,000	Free Cash
<i>Public Facilities</i>	Security Camera Upgrade	\$ 38,500	Free Cash
<i>Public Facilities</i>	Cary Memorial Building Sidewalk Enhancement	\$ 194,200	CPA
<i>Public Facilities</i>	Community Center Sidewalk Design	\$ 50,000	CPA
<i>Public Facilities</i>	Cary Memorial Bldg Records Center Shelving	\$ 75,398	CPA
<i>Public Facilities</i>	Supplemental Appropriation - LHS Modulers	\$ 350,000	GF Debt
<b>Total Public Facilities Department</b>		<b>\$ 7,481,483</b>	

FY 2016 Recommended Capital Budget (continued)			
Department	Project Description	Recommendation	Requested Funding Source(s)
Public Works	Center Streetscape Improvements - Phase I	\$ 2,700,000	GF Debt
Public Works	DPW Equipment	\$ 1,270,000	GF Debt/Free Cash/Water RE/Wastewater RE/Compost Revolving Fund Debt
Public Works	Storm Drainage Improvements and NPDES compliance	\$ 340,000	GF Debt/Free Cash
Public Works	Comprehensive Watershed Storm Water Management Study and Implementation	\$ 390,000	GF Debt
Public Works	Sidewalk Improvements, Additions and Design	\$ 600,000	GF Debt
Public Works	Town Wide Culvert Replacement	\$ 390,000	GF Debt/CPA
Public Works	Town-wide Signalization Improvements	\$ 125,000	GF Debt
Public Works	Hartwell Avenue Infrastructure Improvements	\$ 4,750,000	GF Debt
Public Works	Street Improvements	\$ 3,231,250	Tax Levy/Chapter 90
Public Works	Bikeway Bridge Repairs, Engineering	\$ 10,000	Free Cash
Public Works	Hastings Park - Undergrounding of Wires	\$ 300,000	Free Cash
Public Works	Hydrant Replacement Program	\$ 150,000	Free Cash/Water RE
Public Works	Pump Station Upgrades	\$ 1,350,000	Wastewater RE
Public Works	Water Distribution System Improvements	\$ 900,000	Water RE
Public Works	Battle Green Streetscape Improvements	\$ 200,000	Free Cash/CPA
Public Works	Minuteman Bikeway Wayfinding Signs	\$ 39,000	CPA
Public Works	Westview Cemetery Building Assessment	\$ 35,000	Cemetery Fund
Public Works	Sanitary Sewer System Investigation and Improvements	\$ 1,200,000	Wastewater Debt
<b>Total Public Works Department</b>		<b>\$ 17,980,250</b>	


## CAPITAL PLAN BY FINANCING SOURCE

The following pages include tables that show the recommended FY2016 capital projects by financing source:

General fund debt;  
Wastewater fund debt;  
Proposition 2 ½ excluded debt  
Cash capital (i.e., current revenue).

Each debt-related table includes the projected debt service impact of recommended projects, actual debt service on debt authorized and issued, and projected debt service on debt authorized and unissued. Finally, each table is accompanied by a written description of each recommended project.

## FY2016 RECOMMENDED PROJECTS - GENERAL FUND DEBT (Table I)

 <b>Town of Lexington - FY 2016 Budget</b> <b>FY 2016 Manager's Recommended Budget: Capital Projects</b>											
<b>TABLE I: FY2016 RECOMMENDED PROJECTS - GENERAL FUND DEBT</b>											
		<b>AMOUNT FINANCED</b>	<b>TERM</b>	<b>INTEREST RATE</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>FY2018</b>	<b>FY2019</b>	<b>FY2020</b>	
<b>MUNICIPAL PROJECTS</b>											
1	Fire Pumper <sup>1</sup>	\$ 500,000	5	4.0%		0.0%	\$ 10,000	\$ -	\$ -	\$ -	
2	Police/Fire Dispatching and Records Software (\$705,900)	\$ 398,400	5	4.0%		\$ 7,968	\$ 95,616	\$ 92,429	\$ 89,242	\$ 86,054	
3	Center Streetscape Improvements - Phase I	\$ 2,700,000	10	4.0%		\$ 54,000	\$ 378,000	\$ 367,200	\$ 356,400	\$ 345,600	
4	DPW Equipment Replacement (\$1,270,000)	\$ 399,000	10	4.0%		\$ 7,980	\$ 55,860	\$ 54,264	\$ 52,668	\$ 51,072	
5	Storm Drainage Improvements and NPDES compliance (\$340,000)	\$ 114,425	10	4.0%		\$ 2,289	\$ 16,020	\$ 15,562	\$ 15,104	\$ 14,646	
6	Comprehensive Watershed Storm Water Management Study and Implementation	\$ 390,000	10	4.0%		\$ 7,800	\$ 54,600	\$ 53,040	\$ 51,480	\$ 49,920	
7	Sidewalk Improvements, Additions and Design	\$ 600,000	5	4.0%		\$ 12,000	\$ 144,000	\$ 139,200	\$ 134,400	\$ 129,600	
8	Town Wide Culvert Replacement (\$390,000)	\$ 100,000	10	4.0%		\$ 2,000	\$ 14,000	\$ 13,600	\$ 13,200	\$ 12,800	
9	Town-wide Signalization Improvements	\$ 125,000	5	4.0%		\$ 2,500	\$ 30,000	\$ 29,000	\$ 28,000	\$ 27,000	
10	Hartwell Avenue Infrastructure Improvements	\$ 4,750,000	10	4.0%		\$ -	\$ 95,000	\$ 665,000	\$ 646,000	\$ 627,000	
11	Lincoln Park Field Improvements (\$650,000)	\$ 236,500	10	4.0%		\$ 4,730	\$ 33,110	\$ 32,164	\$ 31,218	\$ 30,272	
12	Parking Meter Replacement	\$ 500,000	5	4.0%		\$ 10,000	\$ 120,000	\$ 116,000	\$ 112,000	\$ 108,000	
	Subtotal	\$ 10,813,325				\$ 111,266	\$ 1,046,205	\$ 1,577,459	\$ 1,529,712	\$ 1,481,965	
<b>FACILITIES PROJECTS</b>											
1	Middle School Space Mining	\$ 674,000	10	4.0%		\$ 13,480	\$ 94,360	\$ 91,664	\$ 88,968	\$ 86,272	
2	Clarke Middle School Circulation and Parking Improvements, Design <sup>2</sup>	\$ 363,000	5	4.0%		\$ 7,260	\$ -	\$ -	\$ -	\$ -	
3	LHS Phase 2 Overcrowding/Completion	\$ 90,200	5	4.0%		\$ 1,804	\$ 21,648	\$ 20,926	\$ 20,205	\$ 19,483	
4	Major Mechanical/Electrical Systems' Replacement	\$ 463,000	5	4.0%		\$ 9,260	\$ 111,120	\$ 107,416	\$ 103,712	\$ 100,008	
5	Supplemental - LHS modulars	\$ 350,000	5	4.0%		\$ 7,000	\$ 84,000	\$ 81,200	\$ 78,400	\$ 75,600	
6	Lexington Public School Educational Capacity Increase - Short and Long Term <sup>2</sup>	\$ 4,080,000	5	4.0%		\$ 81,600	\$ -	\$ -	\$ -	\$ -	
7	LHS Heating Systems Upgrade Phases 2 & 3 - Design <sup>2</sup>	\$ 150,000	10	4.0%		\$ 3,000	\$ -	\$ -	\$ -	\$ -	
	Subtotal	\$ 6,170,200				\$ 123,404	\$ 311,128	\$ 301,206	\$ 291,285	\$ 281,363	
<b>SCHOOL PROJECTS</b>											
1	School Furniture, Equipment & Systems Program (\$317,500)	\$ 117,500	5	4.0%		\$ 2,350	\$ 28,200	\$ 27,260	\$ 26,320	\$ 25,380	
2	LPS Technology	\$ 1,378,000	5	4.0%		\$ 27,560	\$ 330,720	\$ 319,696	\$ 308,672	\$ 297,648	
3	Additional Time Clock System Funds	\$ 208,000	5	4.0%		\$ 4,160	\$ 49,920	\$ 48,256	\$ 46,592	\$ 44,928	
	Subtotal	\$ 1,703,500				\$ 34,070	\$ 408,840	\$ 395,212	\$ 381,584	\$ 367,956	
	<b>TOTAL LEVY SUPPORTED GROSS DEBT SERVICE</b>	<b>\$ 18,687,025</b>				<b>\$ 268,740</b>	<b>\$ 1,766,173</b>	<b>\$ 2,273,877</b>	<b>\$ 2,202,580</b>	<b>\$ 2,131,284</b>	
<b>AUTHORIZED LEVY SUPPORTED DEBT SERVICE</b>					<b>FY14</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>FY2018</b>	<b>FY2019</b>	<b>FY2020</b>
A	Subtotal - Approved and Issued Levy Supported Debt Service						\$ 5,175,914	\$ 4,346,546	\$ 3,131,705	\$ 2,485,904	\$ 1,821,341
B	Subtotal - Estimated Debt Service - Approved and Unissued Levy Supported Debt Service (short and long-term debt)						\$ 1,140,377	\$ 2,204,779	\$ 2,110,548	\$ 2,022,318	\$ 1,834,888
C	Summary - Debt Service on authorized debt						\$ 6,316,291	\$ 6,551,325	\$ 5,242,254	\$ 4,508,222	\$ 3,456,229
D	Subtotal - Projected New Levy Supported Net Debt Service						\$ 268,740	\$ 1,766,173	\$ 2,273,877	\$ 2,202,580	\$ 2,131,284
E	Subtotal - Other Debt-related costs						\$ 147,495	\$ 152,658	\$ 158,001	\$ 163,531	\$ 169,254
F	<b>TOTAL - PROJECTED LEVY SUPPORTED DEBT SERVICE</b>				<b>\$ 5,534,823</b>	<b>\$ 6,730,641</b>	<b>\$ 6,732,527</b>	<b>\$ 8,470,156</b>	<b>\$ 7,674,131</b>	<b>\$ 6,874,333</b>	<b>\$ 5,756,767</b>
G	<b>PROPOSED USE OF STABILIZATION FUNDS TO MITIGATE DEBT SERVICE IMPACTS OF LHS MODULAR BUILDINGS CONSTRUCTION PROJECT</b>					\$ (919,000)	\$ (620,567)	\$ (1,943,000)	\$ (830,500)	\$ -	
H	<b>PROJECTED NET LEVY SUPPORTED DEBT SERVICE (ex. Parking Meter Replacement)</b>					<b>\$ 5,811,641</b>	<b>\$ 6,111,960</b>	<b>\$ 6,527,156</b>	<b>\$ 6,843,631</b>	<b>\$ 6,874,333</b>	<b>\$ 5,756,767</b>

<sup>1</sup> It is projected that a bond anticipation note will be issued in February 2016 with interest coming due in FY17 at which time the note will be retired with proceeds from a settlement.

<sup>2</sup> As of 2/27/15, the Selectmen have not taken a position on these projects. These projects are candidates for funding as exempt debt in which case all future debt service would be financed outside the Proposition 2 1/2 levy limit. If a debt exclusion vote does not approve the projects, bonds for these projects and the projects do not move forward, they would have to be financed within the levy limit and the term for which the debt could be issued would be limited to 5 years less the term used for financing any short term debt for the projects.

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<sup>2</sup> As of 2/27/15, the Selectmen have not taken a position on these projects. These projects are candidates for funding as exempt debt in which case all future debt service would be financed outside the Proposition 2 1/2 levy limit. If a debt exclusion vote does not approve the projects, bonds for these projects and the projects do not move forward, they would have to be financed within the levy limit and the term for which the debt could be issued would be limited to 5 years less the term used for financing any short term debt for the projects.

## Municipal Projects

**1. Fire Pumper - \$500,000 (General Fund Debt with Debt Service to be Funded with FY16 Free Cash/ Settlement with Manufacturer):** This is a request to purchase a new fire pumper to return the department's fleet back to four (4) Pumps. The Town was able to negotiate the return of a defective pumper (Engine 2, purchased in 2010). The cost of this new pumper will come from proceeds from the fire pumper manufacturer. Until this pumper is replaced, the Fire Department will continue to borrow back-up equipment from neighboring communities when the Town's front-line pumps are out-of-service.

**2. Police/Fire Dispatching and Records Software – \$705,900 (\$398,400 General Fund Debt and \$307,500 from Free Cash):** This project is a joint Police/Fire Capital/Information Services request. In October 1990, the Lexington Police Department purchased CrimeTRACK from MICROsystems of Melrose, MA, a police software package. It is a menu driven system that has been upgraded through the years including a graphic user



interface (with Windows like features). The software allows for tracking police/fire/9-1-1 calls, computer assisted dispatching, central records, tracking of warrants - citations - restraining orders, a report writing system, business-residence records, arrest management, personnel management, scheduling, and more. It was designed to be a fully integrated system linking police and fire operations. The 2004 Public Safety Staffing Review panel reviewed the computer network and recommended replacing the software as it has not met the needs of the Lexington Fire Department almost since it came on-line in 1994. The company has served Lexington well but remains a small operation with the inherent risk of losing the ability to service the system if one or more key members are lost. During 2014, the Fire and Police departments identified a product with a fully integrated police / fire / dispatch software system that is designed in a Windows format and compatible with a robust variety of software/hardware accessories. The product is used by over 300 public safety agencies including Nantucket, MA Police Department. Lexington's current hardware will need to be upgraded to accommodate the new software system to include new servers. This product requires 2-3 days training for basic users and 7-10 days for "power" users and "train the trainer" staff. There will also be costs for converting 24 years of current data from the existing system into the new software. This request include hardware, software, project management and staff training costs.

### **3. Center Streetscape Improvements-Phase 1 - \$2,700,000 (General Fund Debt):**

This project is Phase 1 of a multi-phased request to address pedestrian, bicycle and traffic safety in the Center. As part of the design and analysis work for this project, in FY13 funding was approved for traffic counts and traffic modeling of multiple scenarios and for the design to progress to the 25% stage. The FY15 request of \$600,000 provided funding to complete the design and develop plans and specifications necessary for bidding the project. The construction funding is requested in multiple years. The construction phases will provide for certain pedestrian, bicycle, and vehicular safety improvements, the restoration, removal and replacement of the sidewalk along the northerly side of Massachusetts Avenue from Woburn Street to Harrington Road, streetscape improvement, improved lighting as well as other aspects developed in the Plan. In addition to the restoration of these areas, all of the existing pedestrian corridors and ramps will be brought into ADA compliance. This phase of the project will be for the portion of Massachusetts Avenue from Woburn Street to Cary Hall.

**4. DPW Equipment Replacement - \$1,270,000 (\$399,000 General Fund Debt, \$100,000 Free Cash, \$40,500 Water Fund Retained Earnings, \$40,500 Wastewater Fund Retained Earnings, \$690,000 Compost Revolving Fund Debt):** This is an annual request to replace equipment that is beyond its useful life and whose mechanical condition no longer meets work the requirements of the Department of Public Works (DPW). The DPW has an inventory of 146 pieces of equipment including sedans, hybrid SUVs, construction vehicles and specialized equipment used to mow parks, plow snow, repair streets and complete a variety of other projects. Without regular equipment replacement, the efficiency and cost effectiveness of the DPW's operations would be handicapped due to equipment down time and excessive repair costs. The FY2016 request, by funding source, is shown in the table below.

Each piece of equipment is inventoried with original and current replacement cost, state of condition and replacement time interval. Replacement intervals vary from 5 to 25 years, and are based on manufacturer recommendations and use (type and duration). The selection of vehicles to be replaced begins with the proposed replacement date. Then each vehicle is assessed as to its mechanical condition and work requirements. The systematic replacement

program defines what equipment is expected to need replacement during the next five years, with the intent of preventing any unexpected emergency purchases. Annual updates are conducted by the Road Machinery Division, Division Superintendents and reviewed by the Manager of Operations and the Director of Public Works. The proposed Loader for the Compost Site has an energy efficient engine, which will reduce fuel use by approximately 50%. The proposed Loader purchase will be re-evaluated once the final plan for solar panels at the Compost site has been adopted.

The table below shows each piece of equipment recommended and its proposed financing source.

	General Fund	Free Cash	Water Fund	Sewer Fund	Compost Fund	Total
F350 Pick-Up	\$ 9,000		\$ 40,500	\$ 40,500		\$ 90,000
2- Toro GroundMaster Mowers	\$ 80,000	\$ 100,000				\$ 180,000
Cat Loader					\$ 190,000	\$ 190,000
Windrown Turner					\$ 500,000	\$ 500,000
F550 Bucket Truck	\$ 140,000					\$ 140,000
F350 Pick-Up with plow	\$ 90,000					\$ 90,000
F350 Pick-Up with plow	\$ 80,000					\$ 80,000
	\$ 399,000	\$ 100,000	\$ 40,500	\$ 40,500	\$ 690,000	\$ 1,270,000

#### **5. Storm Drainage Improvements and NPDES Compliance - \$340,000 (\$114,425**

**General Fund Debt and \$225,575 Free Cash):** This is an annual request. \$70,000 is estimated for the compliance with the construction related portions of the National Pollutant Discharge and Elimination System (NPDES) minimum control measures as mandated by EPA in the storm water general permit issued to the Town. This includes the development and submittal of the Notice of Intent and Stormwater Management Program (SWMP) as required by the EPA as well as illicit discharge, detection and elimination. The draft of the next permit phase was issued by DEP in September 2014. Requirements measures include illicit discharge detection and elimination, and BMP (best management practices) installation and retrofits. \$270,000 will be used to repair/replace drainage structures encountered during the road resurfacing program, repair other drainage areas of concern in town and improve stormwater issues discovered during the NPDES investigation work.

This request will provide funds to restore the function of select town drainage systems. Much of the town has been developed and old systems are inadequate. There are many trouble spots in the watersheds of the Vine Brook, Mill Brook, Beaver Brook, and Kiln Brook as well as other areas throughout town. Recent drainage installation and rehabilitation included Shade Street, Walnut Street, Adams Street, Ledgelawn Avenue and Hastings Park. Anticipated drainage installation is planned for Paul Revere Road. Illicit discharge detection and elimination has been ongoing in the Vine Brook and Mill Brook which are areas identified to have contamination.

#### **6. Comprehensive Watershed Storm Water Management Implementation - \$390,000**

**(General Fund Debt):** This is an annual request. DPW-Engineering and Conservation are collaborating on addressing drainage/brook management issues. The Charles River, Shawsheen River, and Mystic River watershed management plans have all been completed with prior authorizations. Design work is underway for the daylighting and drainage improvements at Willards Woods and the bank stabilization at Vine Brook in the Saddle Club Road area. This request is for the continuing design / implementation of the watershed plans and for the construction of priorities established in the watershed plans. Staff has reviewed the three

watershed plans and developed a likely prioritization schedule with built-in flexibility pending unforeseen changes. The requested funding will be used to move forward with the determined prioritized areas. Please note that there is some overlap with the Town Wide Culvert Replacement project, as some of these projects include culvert work as well as stream management work. Possible priority areas include the Valleyfield area and Whipple Brook area.

## **7. Sidewalk Improvements, Additions and Design- \$600,000 (General Fund Debt):**

This is an annual request to rebuild and/or repave existing asphalt sidewalks and to begin design work on new sidewalks. Proposed funding has been increased from prior years in order to address the Selectmen's goal of improving the overall condition of existing sidewalks and providing new sidewalks. Specifically, it is recommended that the Selectmen consider using a portion of this capital request to forward the neighborhood petitions for: a) a feasibility study for a sidewalk on Pleasant Street (estimated at \$20,000); and b) a sidewalk and intersection improvements on Prospect Hill Road, subject to neighborhood consensus (estimated at \$50,000 for the sidewalk and \$50,000 for the intersection improvements).

DPW, in conjunction with various committees and other town departments develops a list each year of the sidewalks most in need of repair/replacement. There are four determining factors that dictate the repair of a sidewalk 1) Is the sidewalk unsafe for travel due to trip hazards, defects, etc. 2) Is the sidewalk within the Safe Routes to School Program 3) Is the volume of pedestrian traffic heavy, light or average, and 4) Is the general condition of the sidewalk poor, fair or good which dictates treatments such as full reconstruction, overlay or patching? All work will be ADA compliant. DPW has worked with Fay, Spofford & Thorndike, a pavement consulting firm, to compile a sidewalk condition survey that will help prioritize sidewalk repair locations. It is recommended that \$20,000 of this funding be used for a feasibility study for a sidewalk on Pleasant Street, which is also being supported by a neighborhood petition.

The history of prior Sidewalk appropriations is:

Sidewalk Funding History	
FY2008	\$100,000
FY2009	\$275,000
FY2010	\$ -
FY2011	\$200,000
FY2012	\$200,000
FY2013	\$300,000
FY2014 <sup>1</sup>	\$400,000
FY2015	\$400,000
<sup>1</sup> \$200,000 of which is for the Hartwell Ave. mixed use path)	

**8. Town Wide Culvert Replacement - \$390,000 (\$100,000 General Fund Debt and \$290,000 Community Preservation Act Fund):** This is an annual program request. Ongoing culvert inspections indicate the need for a replacement program for many of the older culverts in town. Of the funding requested, \$250,000 is an estimate of construction costs necessary for culvert replacement with \$65,000 for design, permitting, and bidding. The



remainder is for contingencies. Of the total project cost, \$290,000 is being requested through CPA funding for the design and replacement of a culvert along the Minuteman Bikeway just North of Camelia Place at the headwaters of the North Lexington Brook. This includes construction funding, oversight, and contingency. On-going culvert inspections are proving a need for a replacement program as many of the older culverts in town are near or at failure. The Watershed Management Plans have identified a number of these failing culverts. This replacement program is a companion effort with the ongoing Watershed Management Plan. DPW recently completed the Concord Avenue culvert near the Belmont line and the Compost facility culvert. The Revere Street at North Lexington Brook culvert and Concord Ave at Hardy's Brook culvert are in permitting and expected to be constructed in 2015. Please note that there is some overlap with the Comprehensive Stormwater Management project as some of these projects include culvert work as well as stream management work.

**9. Town-wide Signalization Improvements - \$125,000 (General Fund Debt):** This is an annual request for funds to update traffic and pedestrian signals in Lexington. A signal inventory and compliance study has been completed. The study includes ADA compliance, condition assessment; signal timing, delays, and prioritized recommendations. Potential locations for this funding include the intersections of Bedford Street at Worthen Road, Lowell Street at East Street, Lowell Street at North Road and improved pedestrian crossings along Massachusetts Avenue. In most cases the design work is minimal and is therefore reflected as 10% of the total cost.

**10. Hartwell Avenue Infrastructure Improvements - \$4,750,000 (General Fund Debt):**

This request is to design, permit, and construct vehicle, pedestrian and bicycle safety improvements to a portion of Hartwell Avenue and, specifically, to address vehicle capacity and safety at the Hartwell Avenue/McGuire Road intersection. The proposed FY16 funding will be used to replace or rehabilitate the Hartwell Avenue bridge crossing at Kiln Brook and to upgrade the Maguire Road intersection and potentially provide a protected pedestrian crossing at the Bedford Street intersection. This proposed work was developed as part of the Transportation Management Plan for the Hartwell Avenue area developed by the Planning Board. The proposed funding request will be to provide construction, construction oversight and fund potential land acquisition (easements, land takings, etc.). ***Since this construction work will be phased over two or more construction seasons, the debt service table above reflects this phasing of the work.*** Additional work may be proposed beyond FY16 but the detailed scope and costs have not yet been developed.

**11. Lincoln Park Field Improvements - \$650,000 (\$236,500 General Fund Debt, \$220,000 Community Preservation Act Funds, \$193,500 Recreation Retained Earnings):** This is the third phase of a three-phase capital improvement program to address safety and playability at Lincoln Park. The Recreation Committee requests \$650,000 to replace the synthetic turf field at Lincoln Park field #3 and work in the vicinity of the field. The estimated cost is based on the actual amount for Lincoln Park field #1 in October of 2013 and cost estimate developed by a landscape architect in August 2014. Funding to replace the synthetic turf on Field #2 was approved in 2014 and that work should be completed in the Spring of 2015.

**12. Parking Meter Replacement - \$500,000 (General Fund Debt with Debt Service to be Funded from Parking Meter Fund):** In June 2014 the Board of Selectmen adopted the "Lexington Center Parking Management and Implementation Plan" (the Plan) and approved the

implementation of the initial recommendations that included replacing the Center's 525 parking meters with new technology. The goal of the plan is to manage the existing parking supply more efficiently, increase parking availability, and simplify the parking system for users. New meter technology will allow users to pay with a credit card and possibly smart phone, in addition to coin payments. While meter rates are recommended to increase, the Plan also calls for providing users with the first 15 to 30 minutes free. The new meters will also have the ability for improved monitoring and reporting of parking utilization in the area thereby enabling Town Officials to assess and alter rates as deemed appropriate. Debt service for this project will be funded from the Parking Meter Fund.

### **Department of Public Facilities Projects**

**1. Middle Schools Space Mining - \$ 674,000 (General Fund Debt):** A study, funded by Article 14H of 2014 Annual Town Meeting for \$40,000, evaluated the two middle schools for opportunities to improve space utilization. As a result of the study, two projects are being recommended. The first project is to divide the underutilized Clarke teacher's lunchroom into two spaces, a conference room and smaller lunch room. The second project, also at Clarke, is to renovate the Resource Room 318 into a more functional space. A suite with a group area and smaller educational spaces will be created for staff and students, and the remainder of the space will be separated as a full classroom, thereby increasing overall utilization for the space. The Diamond School space mining project, originally planned for FY16, has been deferred by the Superintendent.

**2. Clarke Middle School Circulation and Parking Improvements, Design - \$363,000 (General Fund or Excluded Debt):** This project is requesting design funds to modify and expand paving around the Clarke Middle School for increased parking, improved circulation for vehicles and to improve the safety of pedestrian and bicycle routes. The construction funds will be requested after the design and phasing schedule is completed. The current construction estimate is \$2.2 million. During the school drop off and pick up period, the existing paved areas do not provide adequate circulation for the amount of passenger cars and busses that access the site. Additionally, students weave themselves through the often stopped vehicles. Implementing this project will improve safety and circulation of vehicles, pedestrians and bicyclists; provide adequate parking and provide needed capacity from increasing enrollments.

**3. Lexington High School Phase 2 Overcrowding/Completion - \$90,200 (General Fund Debt):** This project is requesting funds to complete the renovation of Room 228. LHS Overcrowding Phase 2 repurposed Room 228 into programmable space. The room has been temporarily used as a small classroom, and for FY 2016 funding is requested to complete the renovation into offices for the English and Social Studies Department Heads. After this renovation is completed, the two department heads and administrators will be relocated and their current offices in suite 217 will be used to consolidate Special Education Department staff into one area.

**4. Public Facilities-Major Mechanical/Electrical Systems' Replacement - \$463,000 (General Fund Debt):** This project is an annual replacement of HVAC and electrical systems that have exceeded their useful life and require replacement before excessive failures begin occurring. The following systems have been identified for replacement in FY 2016: LHS – Replace RTU A-1, serving the IT Department, due to failure history and replace with larger, RTU with energy recovery, sized for the additional IT room 164. Town Office Building: Replace both

AHUs serving the Town Office Building due to failure history and inability to maintain conditions. The Design will include return air and energy recovery.

**5. Supplemental Appropriation – Phase II – LHS Modular Classrooms - \$350,000**

**(General Fund Debt):** An appropriation of \$350,000 is requested to complete the LHS prefabricated modular classrooms project. The low bid for the construction of the second phase prefabricated building exceeded the construction budget by \$500,000. This supplemental appropriation, in addition to an \$150,000 Appropriation Committee reserve fund transfer, will ensure that the schedule can be maintained to construct the specially designed vocational spaces for incoming ILP students.

**6. Lexington Public Schools Educational Capacity Increase - \$4,080,000**

**(Candidates for Excluded Debt Funding):** The 2015 School Master Plan, funded by Article 5 of June 2014 Special Town Meeting, concluded that eight of the nine Lexington Public Schools were at or over capacity. The Master Plan identified several short and long term options for meeting the capacity forecast over the next five years of the Superintendent's Enrollment Working Group. The Ad hoc School Master Planning Committee recommended that the School Committee seek \$4,080,000 in funds to move several projects through schematic design, design development, and construction documents, and then seek construction funds at a future Town Meeting. (At the time of the printing of this document, these projects were still under consideration by the Board of Selectmen.)

**7. LHS Heating Systems Upgrade Phase 2 and 3 - \$150,000 (General Fund or**

**Candidate for Excluded Debt):** 2014 Annual Town Meeting, Article 14B, funded \$75,000 to evaluate options to determine the most cost effective approach to extend the useful life of the LHS main building HVAC systems. Phase one of this project was completed under an authorization at 2009 Annual Town Meeting, Article 19C, which made improvements to the LHS outer buildings. The analysis completed by the consulting engineers presented four options: 1) replace all controls, including actuators and dampers pneumatic controls with DDC controls 2) replace all equipment, including new DDC controls, but replace with the same equipment, 3) similar as option 2, but upgrade with condensing hot water boilers, hot water unit ventilators, and energy recovery ventilation, and 4) new energy recovery ventilation, with partial air conditioning, for all spaces. Remove unit ventilators from the classrooms. The steam distribution system and unit ventilators for the classrooms are original to the buildings (1948 and 1953). During the 2000 renovation and 2003 renovations several roof top units were added, some with steam heat and some with hot water. The project cost for option 4 is approximately \$10,000,000. This is just over \$50/sq. ft. for the 190,000 square feet that is part of this analysis. This project is recommending funding of the design of the option 4, so that funding for phased implementation, which aligns with the Lexington Public School Master Plan, can be presented at future Town Meetings.

**School Projects**

**1. System Wide School Furniture, Equipment and Systems - \$317,500 (\$117,500**

**General Fund Debt and \$200,000 Free Cash):** The school department annually requests replacement of furniture that has reached the end of its useful life. In addition, new furniture inventory is required to address growing enrollment in our schools. Generally furniture repair, replacement, or additions consist of workstations, office furniture, folding chairs/tables, conference room furniture, bookshelves, storage units and cabinets, student work tables, library

furniture, carts, bulletin boards, partitions, and other classroom equipment or systems that facilitate the delivery of instruction.

The Furniture, Equipment and Systems Replacement Program includes requests for

- a. Replacing Furniture Program: \$88,230
  - i. School-wide Furniture Replacement
    - Art Tables and Stools & Cafeteria Tables
    - Whiteboards, Bookshelves, Wooden Cubbies, Adult Classroom Desks and Chairs, Student Desks and Chairs, Lab Tables
    - Art Tables and Art Stools and Fire Proof Filing Cabinets
  - ii. Disposal, Recycling, and moving of furniture
- b. New Program Furniture: \$129,270
  - i. 3 elementary classrooms and Cafeteria Tables at \$15,000 each
  - ii. 2 Middle school Classrooms at \$7,000 each
  - iii. High School staff member replacement/new office furniture (5 @ \$2500 each) plus \$12,500 for other new office and classroom spaces.
  - iv. Emergency Response Communication System (62 District Two Way Radios) \$25,000
  - v. Special Education Equipment Program \$20,270
- c. District Furniture Assessment Analysis \$100,000
  - i. Services would include:
    - Assessment for Repair and Replacement
    - Subsequent inventory assessment, surplus and discard each year

**2. LPS Technology - \$1,378,000 (General Fund Debt):** This request is to the District's Strategic Goal for enhancing the capacity to utilize technology as an instructional and administrative tool. This technology equipment includes technology workstations (desktops, laptops, and mobile devices), printers/peripherals, interactive projection systems, network head-end equipment, and improved wireless network delivery systems for the High School and middle schools.

This capital improvement project would provide the funding for:

- *Technology Workstations* (Desktops, Laptops, Mobile Devices) - \$575,000 is requested of which \$525,000 is to replace aging computers that will be 5-6 years old during FY15 with up-to-date technology workstations. Approximately 550 computers during FY16 will need replacement. \$50,000 will be allocated as part of a three year plan to make sure all six of our elementary schools are equitable in their technology.
- *Expanding One-To-One Mobile Technology Initiative at Grade 8 Middle Schools* - \$275,000 is requested to provide every Grade 8 student (550 students) at Diamond and Clarke Middle schools an iPad for use at home and school.
- *Expanding Individualized iPad initiative in High School* - \$45,000 is requested to expand and further embed our current iPad initiative at the High School to provide iPads to additional 9th grade classrooms so that these classes can utilize the iPads on a regular basis to engage in classroom activities supported by technology.

- *Technology Peripherals* - \$30,000 is requested to purchase and replace old printers, document readers, and projection systems through the district as the building needs arise.
- *Upgrading the Managed Wireless Networks at the High School and middle schools* - \$277,000 is requested to upgrade the density and capacity of our wireless networks at the high school and two middle schools.
- *Upgrading Additional Components schools' LAN networks* - \$86,000 is requested to: (1) upgrade backbone between network head-end to 10 Gb for Estabrook, Clarke, and Diamond schools, (2) replace the current mail and media storage servers, and (3) purchase expanded fireproof data storage repository for the data backup of key systems.
- *Interactive Projector/Whiteboards Units* - \$90,000 is requested for the fourth stage in our completion of our goal that will allow the Lexington School District of having every Grade 3-12 classroom equipped with interactive projector/whiteboard unit.


**3. Additional Time Clock System Funds - \$208,000 (General Fund Debt):** Under the Fair Labor Standards Act, employers are required to record and have available for audit and payment to employees the following information for hourly employees:

- Time and day of week when employee's workweek begins;
- Hours worked each day and total hours worked each workweek;
- Basis on which employee's wages are paid;
- Regular hourly pay rate;
- Total daily or weekly straight-time earnings;
- Total overtime earnings for the workweek;
- All additions to or deductions from the employee's wages;
- Total wages paid each pay period; and
- Date of payment and the pay period covered by the payment.

The goal of this system is to not only meet the requirements of pay under the Fair Labor Standards Act for School employees, but to also have accurate recording and reporting of time worked, overtime, and absences for hourly employees.




## FY2016 RECOMMENDED PROJECTS - WATER FUND DEBT (Table II)

 <b>Town of Lexington - FY 2016 Budget</b> <b>FY 2016 Manager's Recommended Budget: Capital Projects</b>										
<b>TABLE II: FY2016 RECOMMENDED PROJECTS - WATER DEBT</b>										
	PROJECT	AMOUNT FINANCED	DEBT SERV. YEARS	ESTIMATED INT. RATE	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020
1	None Proposed	\$ -	0	0.0%		\$ -	\$ -	\$ -	\$ -	\$ -
	<b>TOTAL</b>	\$ -				\$ -	\$ -	\$ -	\$ -	\$ -
<b>AUTHORIZED WATER DEBT SERVICE</b>					<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>FY2018</b>	<b>FY2019</b>	<b>FY2020</b>
A	Subtotal: Authorized and Issued Water Debt Service					\$ 1,387,508	\$ 1,178,273	\$ 1,136,924	\$ 1,048,703	\$ 826,374
B	Subtotal - Estimated Debt Service - Approved and Unissued Water Debt Service (short and long-term debt)					\$ 28,000	\$ 68,220	\$ 66,248	\$ 64,276	\$ 62,304
C	Summary: Debt Service on Authorized Debt					\$ 1,415,508	\$ 1,246,493	\$ 1,203,172	\$ 1,112,979	\$ 888,678
D	Subtotal: Projected Debt Service on Proposed Capital Projects					\$ -	\$ -	\$ -	\$ -	\$ -
E	Subtotal - Other Debt-related costs					\$ -	\$ -	\$ -	\$ -	\$ -
F	<b>TOTAL PROJECTED WATER DEBT SERVICE</b>				<b>\$ 1,379,622</b>	<b>\$ 1,415,508</b>	<b>\$ 1,246,493</b>	<b>\$ 1,203,172</b>	<b>\$ 1,112,979</b>	<b>\$ 888,678</b>

*No recommendations for debt financing.*

## FY2016 RECOMMENDED PROJECTS - WASTEWATER FUND DEBT (Table III)


 <b>Town of Lexington - FY 2016 Budget</b> <b>Table III: FY 2016 Manager's Recommended Budget: Capital Projects</b>										
<b>TABLE III: FY2016 RECOMMENDED PROJECTS - WASTEWATER DEBT</b>										
	PROJECT	AMOUNT FINANCED	DEBT SERV. YEARS	ESTIMATED INT. RATE	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020
1	Sanitary Sewer System Investigation and Improvements	\$1,200,000	10	4.0%		\$ 24,000	\$ 168,000	\$ 163,200	\$ 158,400	\$ 153,600
	<b>TOTAL</b>	<b>1,200,000</b>				<b>\$ 24,000</b>	<b>\$ 168,000</b>	<b>\$ 163,200</b>	<b>\$ 158,400</b>	<b>\$ 153,600</b>
<b>AUTHORIZED SEWER DEBT SERV.</b>					<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>FY2018</b>	<b>FY2019</b>	<b>FY2020</b>
A	Subtotal: Authorized and Issued Sewer Debt Service					\$ 940,679	\$ 784,755	\$ 739,532	\$ 698,920	\$ 555,611
B	Subtotal - Estimated Debt Service - Approved and Unissued Sewer Debt Service (short and long-term debt)					\$ 14,000	\$ 265,800	\$ 258,000	\$ 250,400	\$ 242,800
C	Summary: Debt Service on Authorized Debt					\$ 954,679	\$ 1,050,555	\$ 997,532	\$ 949,320	\$ 798,411
D	Subtotal: Projected Debt Service on Proposed Capital Projects					\$ 24,000	\$ 168,000	\$ 163,200	\$ 158,400	\$ 153,600
E	Subtotal - Other Debt-related costs					\$ 6,000	\$ 6,210	\$ 6,427	\$ 6,652	\$ 6,885
F	<b>TOTAL PROJECTED SEWER DEBT SERVICE</b>				<b>\$ 1,220,843</b>	<b>\$ 984,679</b>	<b>\$ 1,224,565</b>	<b>\$ 1,167,159</b>	<b>\$ 1,114,372</b>	<b>\$ 803,285</b>

**1. Wastewater System Investigation and Improvements - \$1,200,000 (Wastewater Debt):** This is an annual request for rehabilitation of sanitary sewer infrastructure. Engineering investigation and evaluation will be done on sewers in various watersheds. Work will include replacement or repair of deteriorated sewers and manholes identified throughout Town. Sewage leaks and overflows present a direct danger to the health of the community through transmission of waterborne diseases. In addition, the Town's assessment by the MWRA for sewage treatment is based, in part, on total flow through the meter at the Arlington town line,

so excessive flow of storm water in the sewer results in unnecessarily higher sewage bills.

Projects may be eligible for MWRA grant/loan program funding. Further identification, prioritization, and repair of sanitary sewer in the town reducing inflow and infiltration into the system has been ongoing in several sewer basins in town. Recent completed work in town includes sewer basin area 6 (Tophet swamp), area 7 (Reed Street area), area 10 (Marrett, Lincoln, School Street areas), area 3 (Adams Street, Grant Street, Saddle Club Road area), and area 9 (Parker Street area). Possible future areas of investigation and removal are the Bow Street, Maple Street, Woburn Street, Bloomfield Street, Waltham Street / Concord Avenue and Adams Street areas. Additional work may also include force main rehabilitation and replacement including, but not limited to pump station work.

#### FY2016 RECOMMENDED PROJECTS – RECREATION FUND DEBT (Table IV)



Town of Lexington - FY 2016 Budget

FY 2016 Manager's Recommended Budget: Capital Projects

TABLE IV: FY2016 RECOMMENDED PROJECTS - RECREATION and COMMUNITY PROGRAMS DEBT

	PROJECT	AMOUNT FINANCED	DEBT SERV. YEARS	ESTIMATED INT. RATE	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020
	None Proposed	\$ -	1	6.67%		\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL	\$ -				\$ -	\$ -	\$ -	\$ -	\$ -
	AUTHORIZED REVENUE SUPPORTED DEBT SERV.				FY2015	FY2016	FY2017	FY2018	FY2019	FY2020
A	Subtotal	Approved and Issued Revenue Supported Debt Service				\$100,000	\$100,000	\$100,000	\$100,000	\$ -
B	Subtotal	Approved and Unissued Revenue Supported Debt Service				\$ -	\$ -	\$ -	\$ -	\$ -
C	Summary	Approved Revenue Supported Debt Service				\$100,000	\$100,000	\$100,000	\$100,000	\$ -
D	Subtotal	Projected Debt Service on Proposed Capital Projects				\$ -	\$ -	\$ -	\$ -	\$ -
E		Other Debt-related costs				\$ -	\$ -	\$ -	\$ -	\$ -
F	TOTAL PROJECTED DEBT SERVICE					\$100,000	\$100,000	\$100,000	\$100,000	\$ -

*No recommendations for debt financing.*

## FY2016 RECOMMENDED PROJECTS – FUNDING THROUGH PROPOSITION 2 ½ DEBT EXCLUSION (Table V)



Town of Lexington - FY 2016 Budget  
FY 2016 Manager's Recommended Budget: Capital Projects

TABLE V: FY2016 RECOMMENDED PROJECTS - FUNDING THROUGH PROPOSITION 2 1/2 DEBT EXCLUSION										
PROJECT	AMOUNT FINANCED	DEBT SERV. YEARS	ESTIMATED INT. RATE	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	
1 None Recommended	\$ -				\$ -	\$ -	\$ -	\$ -	\$ -	
PROJ. NEW EXCLUDED DEBT SERVICE	\$ -				\$ -	\$ -	\$ -	\$ -	\$ -	
APPROVED AND PROPOSED EXCLUDED DEBT SERVICE				FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	
Subtotal Approved and Issued Excluded Supported Debt Service					8,597,290	7,967,555	7,708,777	7,372,060	7,092,987	
Subtotal Approved and Unissued Excluded Debt Service					\$ 85,199	\$ 82,764	\$ 80,330	\$ 77,896	73,027	
TOTAL Approved Excluded Debt Service					8,682,489	8,050,319	7,789,107	7,449,956	7,166,014	
Subtotal Proposed Excluded Debt Service					\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL APPROVED AND PROPOSED EXCLUDED DEBT SERVICE				8,373,332	8,682,489	8,050,319	7,789,107	7,449,956	7,166,014	
Less actual (FY14) and proposed (FY15 and FY16) use of Capital Project/Debt Service Reserve/Building Renewal Stabilization Funds to Mitigate Debt Service Impacts of Bridge/Bowman and Estabrook Projects				\$ 950,000	\$ 215,000	\$ -	\$ -	\$ -	\$ -	
Net Debt Service				7,423,332	8,467,489	8,050,319	7,789,107	7,449,956	7,166,014	

*The Board of Selectmen, School Committee and financial committees are evaluating whether funding for certain capital projects should be proposed with a Proposition 2 ½ debt exclusion.*

## FY2016 RECOMMENDED PROJECTS – Compost Revolving Fund (Table VI)



Town of Lexington - FY 2016 Budget  
FY 2016 Manager's Recommended Budget: Capital Projects

TABLE VI: FY2016 RECOMMENDED PROJECTS -Compost Revolving Fund										
PROJECT	AMOUNT FINANCED	DEBT SERV. YEARS	ESTIMATED INT. RATE	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	
DPW Equipment Replacement	\$ 690,000	5	4.0%		\$ 13,800	\$ 165,600	\$ 160,080	\$ 154,560	\$ 149,040	
TOTAL	\$ 690,000				\$ 13,800	\$ 165,600	\$ 160,080	\$ 154,560	\$ 149,040	
AUTHORIZED REVENUE SUPPORTED DEBT SERV.				FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	
A Subtotal Approved and Issued Revenue Supported Debt Service					\$ 33,313	\$ 32,188	\$ 31,125	\$ 30,125	\$ 29,125	
B Subtotal Approved and Unissued Revenue Supported Debt Service					\$ 13,480	\$ 11,000	\$ 5,600	\$ 5,400	\$ 5,200	
C Summary Approved Revenue Supported Debt Service					\$ 46,793	\$ 43,188	\$ 36,725	\$ 35,525	\$ 34,325	
D Subtotal Projected Debt Service on Proposed Capital Projects					\$ 13,800	\$ 165,600	\$ 160,080	\$ 154,560	\$ 149,040	
E Other Debt-related costs					\$ 3,301					
F TOTAL PROJECTED DEBT SERVICE				\$ -	\$ 63,894	\$ 208,788	\$ 196,805	\$ 190,085	\$ 183,365	

**1. DPW Equipment Replacement - \$1,270,000 (\$399,000 General Fund Debt, \$100,000 Free Cash, \$40,500 Water Fund Retained Earnings, \$40,500 Wastewater Fund Retained Earnings, and \$690,000 Compost Revolving Fund Debt):** *see detailed description in section I - General Fund Debt financed projects.*

## FY2016 RECOMMENDED PROJECTS – CASH CAPITAL (Table VII)



Town of Lexington - FY 2016 Budget  
FY 2016 Manager's Recommended Budget: Capital Projects

TABLE VII: FY2016 RECOMMENDED FUNDING FROM REVENUES (Cash by Source)

	PROJECT	Free Cash	Tax Levy	Water Retained Earnings	Sewer Retained Earnings	Recreation Retained Earnings	CPA <sup>1</sup>	Other Funding <sup>2</sup>	TOTAL COST
<b>SCHOOL PROJECTS</b>									
1	School Furniture, Equipment & Systems Program	\$ 200,000							\$ 200,000
2	Food Service LHS Dishwasher and Installation							\$ 82,500	\$ 82,500
	<b>SUBTOTAL</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 82,500</b>	<b>\$ 282,500</b>
<b>FACILITIES</b>									
1	School Building Envelope and Systems	\$ 210,000							\$ 210,000
2	Municipal Building Envelope and Systems		\$ 182,760						\$ 182,760
3	School Building Flooring Program	\$ 125,000							\$ 125,000
4	School Paving Program	\$ 150,000							\$ 150,000
5	School Interior Painting Program	\$ 133,425							\$ 133,425
6	Public Facilities Bid Documents	\$ 75,000							\$ 75,000
7	Diamond Middle School Lighting to Rear Parking Lot	\$ 77,000							\$ 77,000
8	Security Camera Upgrade	\$ 38,500							\$ 38,500
9	Cary Memorial Building Sidewalk Enhancement						\$ 194,200		\$ 194,200
10	Community Center Sidewalk Design						\$ 50,000		\$ 50,000
11	Cary Memorial Bldg Records Center Shelving						\$ 75,398		\$ 75,398
	<b>SUBTOTAL</b>	<b>\$ 808,925</b>	<b>\$ 182,760</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 319,598</b>	<b>\$ -</b>	<b>\$ 1,311,283</b>
<b>MUNICIPAL PROJECTS</b>									
1	Conservation Meadows Preservation Program						\$ 26,400		\$ 26,400
2	Public Safety Radio Stabilization, Phase 1	\$ 90,000							\$ 90,000
3	Lower Vine Brook Paved Recreation Path Reconstruction						\$ 369,813		\$ 369,813
4	Grain Mill Alley Additional Design						\$ 18,000		\$ 18,000
5	Town Wide Culvert Replacement						\$ 290,000		\$ 290,000
6	DPV Equipment Replacement (\$1,270,000)	\$ 100,000		\$ 40,500	\$ 40,500				\$ 181,000
7	Street Improvements <sup>2</sup>		\$ 2,270,145					\$ 961,105	\$ 3,231,250
8	Replace Town Wide Phone Systems-Phase IV	\$ 52,000							\$ 52,000
9	Municipal Technology Improvement Program-Phase III	\$ 140,000							\$ 140,000
10	Police/Fire Dispatching and Records Software	\$ 307,500							\$ 307,500
11	Design Engineering - Firing Range at Hartwell Ave. Compost Site	\$ 50,000							\$ 50,000
12	Storm Drainage Improvements and NPDES Compliance (\$340,000)	\$ 225,575							\$ 225,575
13	Bikeway Bridge Repairs, Engineering	\$ 10,000							\$ 10,000
14	Hastings Park - Undergrounding of Wires	\$ 300,000							\$ 300,000
15	Hydrant Replacement Program	\$ 75,000		\$ 75,000					\$ 150,000
16	Pump Station Upgrades				\$ 1,350,000				\$ 1,350,000
17	Water Distribution System Improvements			\$ 900,000					\$ 900,000
18	Battle Green Streetscape Improvements	\$ 60,000					\$ 140,000		\$ 200,000
19	Minuteman Bikeway Wayfinding Signs						\$ 39,000		\$ 39,000
20	Park and Playground Improvements						\$ 68,000		\$ 68,000
21	Park Improvements - Athletic Fields						\$ 85,000		\$ 85,000
22	Park and Playgrounds ADA Accessibility Study						\$ 78,000		\$ 78,000
23	Park Improvements- Hard Court Resurfacing						\$ 55,000		\$ 55,000
24	Lincoln Park Field Improvements					\$ 193,500	\$ 220,000		\$ 413,500
25	Pine Meadows Equipment					\$ 68,000			\$ 68,000
26	Network Redundancy & Improvement Plan - Phase III							\$ 57,000	\$ 57,000
27	Westview Cemetery Building Assessment							\$ 35,000	\$ 35,000
28	Acquisition of Wright Farm - Parcel 2						\$ 755,000		\$ 755,000
	<b>SUBTOTAL</b>	<b>\$ 1,410,075</b>	<b>\$ 2,270,145</b>	<b>\$ 1,015,500</b>	<b>\$ 1,390,500</b>	<b>\$ 261,500</b>	<b>\$ 2,144,213</b>	<b>\$ 1,053,105</b>	<b>\$ 9,545,038</b>
<b>OTHER CPA FUNDED PROJECTS</b>									
1	Parker's Revenge Restoration						\$ 36,790		\$ 36,790
2	Study for the Restoration of the First Parish Church						\$ 40,000		\$ 40,000
	<b>SUBTOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 76,790</b>	<b>\$ -</b>	<b>\$ 76,790</b>
	<b>TOTAL</b>	<b>\$ 2,419,000</b>	<b>\$ 2,452,905</b>	<b>\$ 1,015,500</b>	<b>\$ 1,390,500</b>	<b>\$ 261,500</b>	<b>\$ 2,540,601</b>	<b>\$ 1,135,605</b>	<b>\$ 11,215,611</b>

<sup>1</sup> CPA totals do not include proposed FY2016 administrative budget of \$150,000, \$25,000 for the Community Center Preservation Restriction Endowment and \$2.42 million for debt service.

<sup>2</sup> Proposed funding for the annual street resurfacing program is comprised of \$2,270,145 of tax levy dollars of which \$624,061 derives from a 2001 operating budget override, and an anticipated distribution of \$961,105 of Chapter 90 funds. Over and above the \$624,061 in tax levy dollars from the 2001 override, additional amounts are recommended and are based on the following: the continued funding of \$281,234 of tax levy support that was initiated in FY12 and maintained in FY13; the continued funding of \$164,850 of tax levy support that was initiated in FY13; \$1.1 million derived from health insurance savings, which reflects an increase from the \$850,000 allocated in FY14 for street improvements, and \$100,000 from FY16 estimated tax levy revenue to duplicate the amount allocated in FY15 for Shade Street traffic calming.

### School Projects

**1. School Furniture, Equipment and Systems - \$317,500 (\$117,500 General Fund Debt and \$200,000 Free Cash):** *see detailed description in section I - General Fund Debt financed projects.*

**2. Food Service, LHS Dishwasher and Installation - \$82,500 (Food Service Revolving Fund):** This request is for the purchase and installation of a dishwasher in the main kitchen of the High School. It is driven largely by the increase average daily participation from SY2012 through SY2015 of 21% and an increase in utensil usage by 35%.



## **Department of Public Facilities Projects**

**1. School Building Envelope and Systems - \$210,000 (Free Cash):** This project involves performing annual prioritized design, repairs and modifications to prevent deterioration of school building exteriors and building systems. Proper maintenance of school buildings requires continual investment in the building envelope and building systems. This includes but is not limited to repair of damaged panels and siding, re-caulking and weatherproofing windows and doors, repainting the wood exterior and extraordinary repairs to mechanical systems. Small, individual items such as failure of a specific door or window or small painting projects will continue to be funded through the operating budget. FY 2016 priorities may include Clarke Middle School drainage improvements and caulking replacement, network improvements to the DPF building automation system, and educational space modifications from enrollment changes.

**2. Municipal Building Envelope and Systems - \$182,760 (Tax Levy):** This ongoing capital request, originally approved for funding in the 2006 Proposition 2 ½ Override, includes repair/replacement projects for the maintenance and upgrade of municipal buildings and systems. Repairs to roofs, windows, mechanical and electrical systems, and interior finishes are required on a continual basis to maintain town facilities for their intended function. The public building infrastructure will always need to be maintained, repaired, and upgraded to prevent structural deterioration and avoid safety hazards. The projects within this program do not increase the size of the public building stock and therefore do not result in increased utility usage or maintenance costs. This year's request intends to implement extraordinary repairs and to install a drainage system for the Town Office Building basement.

**3. School Building Flooring Program - \$125,000 (Free Cash):** This is a multi-year project that will replace carpet, vinyl tile, and ceramic tile flooring systems are beyond their useful life. Flooring systems must be replaced periodically to insure the surfaces are safe and cleanable. Worn or broken flooring creates a tripping hazard, can provide harborage for bacteria and water, and is difficult to clean. Smaller repairs of flooring components are funded through the operating budget. This is the sixth year of this program and new flooring systems have been installed in Clarke stairwells, classrooms, and auditorium, Hastings main corridor, Diamond School, and Central Administration and LHS. This year the Department will also be evaluating replacing flooring in areas that house 12 month programs with low maintenance flooring systems.

**4. School Paving Program - \$150,000 (Free Cash):** This project requests funds for design and construction to maintain school parking and paved pedestrian surfaces in a condition suitable for public use. This program funds paving replacement on school grounds and has resulted in improvements at Bridge, Bowman, Fiske, Hastings, Diamond, and Central Administration buildings. In addition, improvements were made to various school buildings to remove access barriers identified in the ADA Survey completed in 2011. It is anticipated that a priority for next year will be to replace paving in the Bowman School parking lot and to study the requirements for the Sedge Road entrance to Diamond Middle School for replacement in FY 2017.

**5. School Interior Painting Program - \$133,425 (Free Cash):** This is a multi-year project for a school building interior painting program with the intent of systematically repainting interior surfaces on a 7 to 10 year schedule. Elementary school interiors are occasionally painted through PTA planning of community volunteers. The last two years has resulted in improvements at the middle schools and the high school. The third year will focus on the elementary schools and Town office buildings.



**6. Public Facilities Bid Documents - \$75,000 (Free Cash):** This is an annual request for funding of professional services to produce design development, construction documents, and/or bid administration services for smaller school projects in anticipation of requests for construction funding at town meeting that have a high probability of approval. This will insure that the projects can be completed in the then-current construction season, which is particularly important for the timely completion of such projects given the short window between the end of school in June and the beginning of school the following August.

**7. Diamond Middle School Lighting to Rear Parking Lot - \$77,000 (Free Cash):** This project is for adding additional lighting at the Sedge Road side of Diamond Middle School. This project will install seven (7) new LED light fixtures on twenty five (25) foot aluminum poles.

**8. Security Camera Upgrade – \$38,500 (Free Cash):** This project is to upgrade the older PELCO analog security camera system to the newer evacqVision digital security camera system over a five year period.

**9. Cary Memorial Building Sidewalk Enhancement - \$194,200 (Community Preservation Act Fund):** The 2014 March Special Town Meeting appropriated funds to renovate the Cary Memorial Building. At the time of the funding request, the design of the sidewalk accessibility had not been decided. The Board of Selectmen determined voted that the material for this sidewalk will be a concrete surface with a wire cut brick band running parallel with the direction of travel. In addition, two additional post lamps are being added before the new concrete sidewalks are poured in place.

**10. Community Center Sidewalk Design - \$50,000 (Community Preservation Fund):** This request is for the design of a pedestrian sidewalk from Marrett Road to the new Community Center. The 2014 March Special Town Meeting appropriated funds to renovate the Community Center. At the time of the funding request, the design of the sidewalk from Marrett Road to the Community Center was not yet complete. The design for this sidewalk is complicated by the grade of the land leading from Marrett Road to the Community Center. The funding request, therefore, also includes an amount for preparing landscape renderings.

**11. Cary Memorial Building Records Center Shelving – \$75,398 (Community Preservation Act Fund):** This project is for the removal of undersized shelving and replacement with stationary shelving. The Cary Records Center area is repository for retention of long-term and some permanent records of significant and historical value. The Current shelving in Records Center is repurposed from the time when the Cary Memorial Library Children's Department was housed in the Robbins Room and adjacent storage room area. Replacement of undersized shelving with standard sized archival/records storage shelving will provide for proper retention of boxed records.

## **Municipal Projects**

**1. Conservation Meadow Preservation Program - \$26,400 (Community Preservation Act Fund):** This project proposal is to preserve and protect Lexington's conservation meadows for their historical landscape significance, including historic stonewalls and vistas, for passive recreation, and for enhanced wildlife and plant habitat. The project will be implemented in multiple phases over several years; in year one, Hennessey Field and Joyce Miller's Meadow will be preserved. Of the approximately 1400 acres of conservation land owned and managed by the Conservation Commission, approximately 75 acres are upland meadows.

The project entails:

- Preserving meadow land through an extensive woody vegetation removal program to clear heavily overgrown shrubs, trees, and vines, preserving views of stone walls, which serve as historic resources for Lexington's agricultural past.
- Managing invasive species encroachment on the field edges and throughout meadows that interfere with passive recreational opportunities and the historic vistas.

**2. Public Safety Radio Stabilization, Phase 1 - \$90,000 (Free Cash):** This two-phase project is based on the 2013 radio study to identify options to improve reliability and redundancy in the Public Safety Radio System. There is some overlap in both police and fire radios (common antennas, power source, and grounds) that should be separated to have two separate (redundant) systems. Currently the main transmitter is in a shared shelter belonging to Verizon, is not secure, and only provides battery backup in case of power failure. Phase 1 (FY 2016) will include moving the existing police radio system from copper to fiber optic lines, relocating some existing equipment, and adding backup generators to our main radio and repeater sites. Phase 2 (FY 2017) will expand the wireless connections between the main radio system and outlying devices, by adding antennae locations to Cary Hall and the Public Services building, and create a redundant repeater system at the DOT site. The results of the Information Technology Department engineering study of redundant pathways may alter the scope of Phase 2.

**3. Lower Vine Brook Paved Recreational Path Reconstruction - \$369,813**

**(Community Preservation Act Fund):** The project proposes to reconstruct the subsurface and surface of the entire 5,905 feet of paved pathway. The path has been degrading over the years and is now in need of full reconstruction if the path is to continue to serve as a safe and usable recreational resource. The project is similar to the path replacement completed at Lincoln Park in 2014. Components of Phase 1 of this project include:

- Wetlands permitting (including wetlands delineation and permitting fees);
- Tree pruning (to allow truck access on Fairfield Drive end of path); and
- Path reconstruction.

**4. Grain Mill Alley Additional Design - \$18,000 (Community Preservation Act Fund):**

This request is to fund additional design development of a pocket park in the alley between 1775 and 1778 Massachusetts Avenue in Lexington Center and includes \$2,000 of anticipated legal fees. The additional design development will allow for public outreach and a schematic design. The project is a public space project designed to enliven the Center by improving an underutilized area and creating a sense of place that will serve as people spot that draws in activity, improves pedestrian connectivity, and generates business for the Center. The size of the alley is approximately 6,300 SF in total, offering a pedestrian connection from the Minuteman Bikeway to the Center's retail corridor along Massachusetts Avenue (roughly 27 by 233 feet). In 2013 the CPC approved \$24,000 to fund the preliminary schematic design, which included site analysis, design development, and cost estimates. It also included legal services to develop a contract with the adjacent property owners.

**5. Town-wide Culvert Replacement \$390,000 (\$290,000 Community Preservation Act Fund and \$100,000 General Fund Debt):** *see detailed description in Section I - General Fund Debt financed projects.*

**6. DPW Equipment Replacement - \$1,270,000 (\$399,000 General Fund Debt, \$100,000 free cash, \$40,500 Water Fund Retained Earnings, \$40,500 Wastewater Fund Retained Earnings, and \$690,000 Compost Revolving fund):** *see detailed description in section I - General Fund Debt financed projects.*

**7. Street Improvements - \$3,231,250 (\$2,270,145 Tax Levy, \$961,105 of Chapter 90 funds):** This is an annual request for the street resurfacing and maintenance program. It is comprised of \$2,270,145 of Town funds and \$961,105 of Chapter 90 funds (Chapter 90 funding is based on Lexington's most recent allocation and on the current State allocation of \$200 million statewide). Funds will be used for design, inspections, planning, repair, patching, crack sealing and construction of roadways and roadway related infrastructure including repair and installation of sidewalks. A preliminary list of the streets to be repaired under this article is currently under development. A pavement management system is utilized to assist in analyzing the road network and selecting roadways for repairs. This model is kept updated on a regular basis. Approximately \$20,000 of this funding is for data collection, analyses, proposal review, recommendations, and to develop plans for traffic mitigation and improvements town-wide. Traffic calming requests, complete street evaluations and other issues that require Traffic Safety Group (TSG) evaluation will be funded through this request. Significant traffic calming projects may require additional funding to be requested.

<b>Street Improvements - Financing Components</b>	
2001 Override Increased by 2.5% per year	FY16 St. Improvements
Maintenance of unallocated revenue from FY12 Revenue Allocation Model	\$ 624,061
Maintenance of unallocated revenue from FY13 Revenue Allocation Model	\$ 281,234
Additional Tax Levy due to Health Insurance Savings	\$ 164,850
Additional Tax Levy Funding- Shade Street Traffic Calming	\$ 1,100,000
Estimated Chapter 90 Aid	\$ 100,000
	\$ 961,105
	\$ 3,231,250

**8. Replace Town Wide Phone Systems, Phase IV - \$52,000 (Free Cash):** This request is being submitted on behalf of the Municipal Information Services Department, the School Department and the Public Facilities Department. This is Phase IV of a multi-phase VOIP system to address Town wide telephone needs. The request is to fund the replacement of the phone system at the Police Station. The bulk of the two system cores, located in the High School and the Public Services Building, were installed in FY2014. Buildings that have received new VoIP systems in the earlier phases are the Town Office Building and the High School.

**9. Municipal Technology Improvement Program, Phase III - \$140,000 (Free Cash):** This request is for additional disk-based storage to be added to the redundant SANs and additional backup via disk and tape libraries. The SANs installed in both the Town Office Building and 201 Bedford St. server rooms will be expanded by adding expansion drive arrays to the SANs. Backup expansion will be achieved by adding another backup disk array and

backup tape library. This storage growth is expected to meet the needs of the expanded use of the Town's document management system and the addition of Public Safety storage needs. Additional software will also be purchased to assist with file storage, archiving and discovery. Future year funding will be to continue to expand the SAN capacity by adding expansion arrays to the existing SAN and expanding backup capacity to match the file storage growth.

**10. Police/Fire Dispatching and Records Software – \$705,900 (\$398,400 General Fund Debt and \$307,500 from Free Cash):** *see detailed description in section I - General Fund Debt financed projects.*

**11. Design/Engineering-Police Training Firing Range, Hartwell Avenue Site - \$50,000 (Free Cash):** This request is the first phase to relocate, expand and modernize the current Lexington Police outdoor firing range onsite at the Hartwell Avenue facility. The Lexington Police Department has been using a 150' x 75' area (dimensions do not include safety embankments) since the 1970's for required outdoor firearms training and qualification. Working closely with the Department of Public Works, this engineering phase will provide for a feasibility study as to how and where a firing range can be relocated at the Hartwell Avenue site. The firing range should be a minimum of 300' by 100' to accommodate modern firearms training. The range should be surrounded by structure and/or clean fill mounding (no less than 20' high) for safety and to absorb/deflect sound. An indoor facility abutting the range would provide secure storage of range materials, a training room, restrooms, and space for an indoor firearms simulation system. The outdoor range should be equipped with lighting, a variety of target locations, moving targets and a public address system.

**12. Storm Drainage Improvements and NPDES Compliance - \$340,000 (\$114,425 General Fund Debt and \$225,575 Free Cash):** *see detailed description in section I - General Fund Debt financed projects.*

**13. Bikeway Bridge Repairs, Engineering - \$10,000 (Free Cash):** The Grant Street Bridge along the bikeway is showing signs of deterioration. The Engineering Division is working with a structural engineer to determine the extent of the work needed to restore the bridge. The Minuteman Bikeway is used by many residents and non-residents as a commuter and recreational path. This work is essential to keeping a safe pathway for all users. The estimated cost of the repairs is \$70,000.

**14. Hastings Park - Undergrounding of Wires - \$300,000 (Free Cash):** This request is for the undergrounding of utility wires at Hastings Park. NStar has provided preliminary design and installation estimates to place the current overhead wires underground. The use and overall aesthetic view of the park is obstructed by the power lines that run through the park from Worthen Road to Lincoln Street. This request will provide funds to put the power lines underground, which will open up useable space and make the park more aesthetically pleasing. The project will involve removal of the existing utility poles and wires and installation of underground conduit and wires. Hastings Park is one of the most used park areas in Town. It provides green space and a gazebo for events such as the carnival, weddings, company picnics, concerts, family functions, school events, recreation events and other community related events.

**15. Hydrant Replacement Program - \$150,000 (\$75,000 Free Cash, \$75,000 from Water Enterprise Retained Earnings):** This is an ongoing replacement program designed to maintain the integrity of the fire protection system throughout town. The Town of Lexington has 1,500 fire hydrants in its fire protection system. Faulty hydrants need to be replaced annually to meet safety requirements. A list of hydrants needing replacement each year is generated during the annual inspection and flushing of hydrants by the Water Department and the Fire Department as well as hydrants being replaced for Based on discussions between the Water Department and the Fire Department the target goal is to replace approximately 60 hydrants per year. With a replacement cost of approximately \$2,500 per hydrant the capital request will ensure the continued operability of the fire protection system. A total of 266 hydrants (approximately 18% of the system) have been replaced. Hydrants typically have a 50 year life unless they are damaged.

**16. Pump Station Upgrades - \$1,350,000 (Wastewater Retained Earnings):** This is an ongoing program for upgrade of the stations including bringing them in compliance with federal (OSHA) regulations, equipment replacement and generator installations. Lexington has 10 Sewer pumping stations valued at over \$6 million. In July of 2013 a detailed evaluation and capital plan was developed for the town with the assistance of Wright-Pierce. This includes a detailed engineering survey of the pumps stations to determine current and future needs as well as a time table and probable costs for the proposed work. \$600,000 of the FY16 funding request is for full pump station replacement, which will likely be used for the Constitution Road Pump Station as shown in year 3 of the Capital Improvement Plan developed by Wright-Pierce. \$750,000 of this funding request is for anticipated improvements to the main pumping station off of Route 95/128, which has serious operational issues impacting the force main on Gleason Road.

**17. Water Distribution System Improvements - \$900,000 (Water Retained Earnings):** This is an annual program for replacement of unlined, inadequate, aged and failing water mains and deteriorated service connections as well as the elimination of dead ends in water mains. For this fiscal year we are requesting \$820,000 for construction and it is estimated that \$80,000 will be used for engineering services which is approximately 10% of the construction cost. This is a lower design percentage as the Engineering Division designs and bids the water main work in-house and using engineering services only for construction oversight. Possible locations for water system improvement are Massachusetts Avenue from the Arlington town line to Oak Street or the Prospect Hill Road area.

**18. Battle Green Streetscape Improvements – \$200,000 (\$140,000 Community Preservation Act Funds and \$60,000 Free Cash):** Funds for a study of the Battle Green area were approved in FY13. The study reviewed the pedestrian and vehicular safety and flow in and around the Battle Green, ways to enhance the access and visibility of the historical sites and how it relates to the overall Center Streetscape Project. A conceptual plan will be developed for review. The FY16 funding request of \$200,000 will allow the Town to hire an architect/engineering firm to take the conceptual ideas to a 100% design, which will provide a plan and cost estimates for any recommended improvements to the area.

**19. Minuteman Bikeway Wayfinding Signs - \$39,000 (Community Preservation Act Funds):** This request is to fund the design of wayfinding and etiquette signage related to the Minuteman Bikeway in Lexington. This is the next necessary step recommended in the report entitled 'Navigating the Minutemen Bikeway' that was completed with the cooperation of the Bicycle Advisory Committee as well as representatives from the towns of Arlington and Bedford.



The goal of this plan is to design and install signage along the bikeway and adjacent roads and connections points. This signage will provide information to users which includes direction on accessing the bikeway, nearby points of interest (e.g. businesses, shops, tourist attractions), and signs clearly describing the rules of etiquette for users. Upon completion of the design plans, full bidding documents will be developed that include detailed cost estimates, specifications, stamped plan sets, and bid documents.

**20. Park and Playground Improvements - \$68,000 (Community Preservation Act Funds):** This project is to replace the play equipment at Marvin Park, which is outdated does not meet current safety standards. The new playground and play equipment will comply with the Consumer Product Safety Commission (CPSC), American Society for Testing and Materials (ASTM) and the American with Disabilities Act (ADA) standards.

**21. Park Improvements-Athletic Fields - \$85,000 (Community Preservation Act Funds):** This request is for funds to renovate the natural grass Softball Field at Lincoln Park. The renovation to the softball field will include laser grading the skinned infield, adding a new irrigation system, grading the outfield for proper drainage, replacing the existing backstop, and adding two permanent player benches. The Town's athletic fields see excessive use and timely renovations and replacement are critical to provide safe and playable fields for all user groups. This project was originally scheduled for FY2017, but based on the condition of the field, it has been advanced to FY2016

**22. ADA Accessibility Study - \$78,000 (Community Preservation Act Funds):** This request is to complete a study of the Town's recreation areas to determine accessibility improvements. The Lexington Recreation Facilities and ADA Compliance Study will include a facility compliance assessment, recommendations and options of probable costs (play equipment, facility access, signage, handicapped parking, accessible pathways, accessible and non-compliant seating, bleachers, picnic facilities and golf course buildings). As a result of the study, a Transition Plan will be completed and incorporated into future capital plans.

**23. Park Improvements, Hard Court Resurfacing - \$55,000 (Community Preservation Act Funds):** The FY2016 request is to rehabilitate the basketball courts at Sutherland Park and Marvin Park. The project will include reconstruction of the courts and installation of new backboards/poles. The current surfaces have extensive cracks and frost heaves that require reconstruction.

**24. Lincoln Park Field Improvements - \$650,000 (\$236,500 General Fund Debt, \$220,000 Community Preservation Act Funds, \$193,500 Recreation Retained Earnings):** *see detailed description in Section I - General Fund Debt financed projects.*

**25. Pine Meadows Equipment - \$68,000 (Recreation Retained Earnings):** This request is to purchase a Toro Grounds Master 4500D mower to replace the existing 2007 Toro Grounds Master. The life expectancy of golf course mowers average 7 years. New emission regulations increased the cost of the mower by over \$10,000 from the FY2014 capital plan. The 4500D is approximately 9 feet wide and has five floating decks. It will be used almost daily in maintaining the rough at Pine Meadows that covers approximately fifteen acres of turf.

**26. Network Redundancy and Improvement Plan, Phase III - \$57,000 (PEG Access Account):** The purpose of this multiphase project is to both improve the resiliency of the Town Wide fiber network and to provide better networked services. This phase involves

installation of a wireless network in Cary Memorial Building. Upon completion of the Cary Memorial Building renovation in 2015 a wireless system is proposed to serve both public/users, committees and Town staff. The installation of this wireless will improve both the usability and function of the building. Phase IV capital funding for FY2017 and future years will address network infrastructure and construction needs as defined by the Public Safety network study design and engineering study(s). It is expected that this funding will cover construction, as related to the installation of the networking portion of the solution, network switches, wireless networking hardware, network cabling and installation and configuration services. The financial request for future years is yet to be determined as further study needs to be done.

**27. Westview Cemetery Building Assessment - \$35,000 (Cemetery Trust Fund):**

Westview Cemetery is the Town's active cemetery with an average of 200 burials per year. The current building, which serves as the cemetery office, meeting area for grieving families and work space for the maintenance staff has deteriorated, needs to be reconfigured and needs to be brought up to code. Many times a grieving family will come into the office while there is maintenance being performed in the adjacent garage area or other people or staff enter the office area with no other room for the grieving family. The maintenance area is small and not all of the equipment can be stored indoors which affects the durability and life of the equipment. The FY2016 requested funds of \$35,000 will be used to hire an architect to assess the current building, determine if the existing building can be renovated and expanded and determine if a new building is needed. DPW and the architect will work closely with the Facilities Department to determine the best long-term solution for the building.

**28. Acquisition of Wright Farm - Parcel 2 - \$755,000 (CPA Funds):** In 2012 the Town purchased, for Conservation purposes, the 12.6 acre Wright Farm parcel on Grove Street for \$2,950,000. At the time of the purchase Kathleen Wright retained a 43,446 sq. ft. parcel that included the house she was living in, a detached garage and a barn. With the passing of Ms. Wright in January, the Town has the option to purchase this remaining portion of the Wright farm, for the pre-negotiated purchase price of approximately \$520,000. The Board of Selectmen and Conservation Commission are recommending that the Town exercise its option to purchase this remaining parcel of the Wright Farm. The Selectmen propose to turn the house over to LexHab, to be an affordable housing unit, and for the barn and the remaining portion of the land to be used for conservation purposes. LexHab's estimated cost to renovate the house is \$140,000. The remaining amount requested in this appropriation, \$95,000, is for a land management plan, survey, deed restriction, legal and other closing costs.

**Other CPA-Funded Projects**

**1. Parker's Revenge Restoration - \$36,790 (Community Preservation Act Fund):** The Friends of the Minute Man National Park are proposing to restore the Parker's Revenge battle site for the education and enjoyment of visitors. The archeological research phase of the project to be funded with CPA funds includes a Military Tactical Field Simulation Event, archeological analysis, report and coordination with interpretative projects, and artifact conservation and materials analysis. The project includes archeological analysis, site restoration and implementation of an interpretative plan. The total project cost is estimated at \$152,930, with the balance from private funding.

**2. Study for the Restoration of the First Parish Church - \$40,000 (Community Preservation Act Fund):** This project is for a historic structure assessment and report that

will research and document existing conditions for the First Parish building, assess key elements of the exterior, structure and mechanical/electrical systems, and determine priority needs for future preservation and repairs. A portion of the total cost of this work will be provided by the First Parish.

DEFERRED FY2016 AND PROPOSED FY2017 TO FY2020 CAPITAL REQUESTS							
Department	Project Name	Deferred 2016	FY 2017	FY 2018	FY 2019	FY 2020	TOTALS
<b>Community Development</b>							
	Parker Meadow Accessible Trail Construction	\$ -	TBD	\$ -	\$ -	\$ -	\$ -
	Land Acquisition	\$ -	TBD	TBD	TBD	TBD	TBD
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Economic Development</b>							
	Parking Meter Replacement	\$ -	TBD	\$ -	\$ -	\$ -	\$ -
	Grain Mill Alley	\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ 325,000
		\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ 325,000
<b>Fire and Rescue</b>							
	Ambulance Replacement	\$ -	\$ -	\$ 280,000	\$ -	\$ -	\$ 280,000
	Fire Station Headquarters Replacement	\$ 242,000	TBD	\$ -	\$ -	\$ -	\$ 242,000
	Portable Radio Replacement	\$ -	\$ -	\$ -	TBD	\$ -	\$ -
	Ladder Truck Replacement	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
	Public Safety Radio Stabilization	\$ -	\$ 90,000	\$ -	\$ -	\$ -	\$ 90,000
		\$ 242,000	\$ 1,090,000	\$ 280,000	\$ -	\$ -	\$ 1,612,000
<b>Library</b>							
	Cary Library Internal Reconfiguration	\$ -	\$ 375,000	\$ -	\$ -	\$ -	\$ 375,000
		\$ -	\$ 375,000	\$ -	\$ -	\$ -	\$ 375,000
<b>Information Services</b>							
	Replace Town Wide Phone Systems-Phase V	\$ -	\$ 204,000	\$ -	\$ -	\$ -	\$ 204,000
	Head End Equipment Replacement - unfunded year	\$ -	\$ 125,000	\$ 250,000	\$ -	\$ -	\$ 375,000
	Municipal Technology Improvement Program- Phase IV	\$ -	\$ -	\$ 100,000	\$ 55,000	\$ 80,000	\$ 235,000
	Network Redundancy & Improvement Plan - Phase IV	\$ -	TBD	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ 329,000	\$ 350,000	\$ 55,000	\$ 80,000	\$ 814,000
<b>Police</b>							
	Police Station; Renovation and Add-on Design and Engineering	\$ -		\$ -	TBD	TBD	TBD
	Police Outdoor/Indoor Firing Range - Hartwell Avenue	\$ -	TBD	\$ -	\$ -		TBD
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Public Facilities</b>							
	Townwide Roofing Program	\$ -	\$ 416,408	\$ 285,443	\$ 704,834	\$ 1,950,384	\$ 3,357,069
	School Building Envelope and Systems Program	\$ -	\$ 215,000	\$ 221,000	\$ 226,000	\$ 231,600	\$ 893,600
	Middle Schools Space Mining	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -
	LHS Heating Systems Upgrade Phases 4 - 8	\$ -	\$ 368,000	\$ 4,460,000	\$ 2,570,000	\$ 3,230,000	\$ 10,628,000
	Municipal Building Envelope and Systems	\$ -	\$ 187,329	\$ 192,012	\$ 196,812	\$ 201,732	\$ 777,885
	School Building Flooring Program	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 500,000
	School Paving Program	\$ -	\$ 153,750	\$ 157,593	\$ 161,901	\$ 166,000	\$ 639,244
	Interior Painting Program	\$ 24,169	\$ 161,534	\$ -	\$ -	\$ -	\$ 185,703
	Public Facilities Bid Documents	\$ -	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 300,000
	Diamond Energy Improvements	\$ -	\$ 250,000	\$ 3,500,000	\$ -	\$ -	\$ 3,750,000
	Visitors Center	\$ -	\$ 2,080,298	\$ -	\$ -	\$ -	\$ 2,080,298
	Middle School Science and Performing Arts	\$ -	\$ 250,000	\$ 3,100,000	\$ -	\$ -	\$ 3,350,000
	Hastings School Renovation/Replacement	\$ -	\$ 3,800,000	\$ 55,200,000	\$ -	\$ -	\$ 59,000,000
	Clarke Middle School Circulation and Parking Improvements	\$ -	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 2,200,000
	Security Camera Upgrade to Digital from Analog	\$ -	\$ 77,000	\$ 82,500	\$ 49,500	\$ -	\$ 209,000
	Public Facilities Mechanical/Electrical System Replacements	\$ -	\$ 423,500	\$ 484,000	\$ 544,500	\$ 605,000	\$ 2,057,000
	Elementary School Short Term Capacity Increase	TBD	TBD	TBD	TBD	TBD	TBD
	Lexington Public School Educational Capacity Increase	TBD	TBD	TBD	TBD	TBD	TBD
	Community Center Sidewalk	\$ -	TBD	\$ -	\$ -	\$ -	\$ -
		\$ 374,169	\$ 10,782,819	\$ 67,882,548	\$ 4,653,547	\$ 6,584,716	\$ 89,927,799
<b>Public Works</b>							
	Center Streetscape Improvements	\$ 1,300,000	\$ 1,333,333	\$ 1,333,333	\$ 1,333,333	\$ -	\$ 5,300,000
	Automatic Meter Reading System	\$ -	\$ 657,250	\$ 496,000	\$ 496,000	\$ -	\$ 1,649,250
	Equipment Replacement	\$ -	\$ 840,000	\$ 790,000	\$ 790,000	\$ 770,000	\$ 3,190,000
	Street Improvements	\$ -	\$ 2,548,560	\$ 2,564,552	\$ 2,580,943	\$ 2,597,744	\$ 10,291,799
	Storm Drainage Improvements and NPDES compliance	\$ -	\$ 340,000	\$ 340,000	\$ 340,000	\$ 340,000	\$ 1,360,000
	Sanitary Sewer System Investigation and Improvements	\$ -	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 4,800,000
	Hydrant Replacement Program	\$ -	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 600,000
	Pump Station Upgrades	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 2,400,000
	Comprehensive Watershed Storm Water Management Study and Implementation	\$ -	\$ 390,000	\$ 390,000	\$ 390,000	\$ 390,000	\$ 1,560,000
	Water Distribution System Improvements	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 4,000,000
	Mass Ave - Three Intersections Improvement	\$ -	\$ 50,000	\$ -	\$ 6,550,000	\$ -	\$ 6,600,000
	Sidewalk Improvement	\$ -	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 1,600,000
	Dam Repair	\$ -	\$ 530,000	\$ -	\$ -	\$ -	\$ 530,000
	Battle Green Master Plan - Phase 3	\$ -	\$ 570,438	\$ -	\$ -	\$ -	\$ 570,438
	Town Wide Culvert Replacement	\$ -	\$ 390,000	\$ 390,000	\$ 390,000	\$ 390,000	\$ 1,560,000
	Town-wide Signalization Improvements	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 500,000
	Hartwell Avenue Infrastructure Improvements	\$ -	\$ -	\$ -	TBD	\$ -	TBD
	Municipal Parking lot improvements	\$ -	\$ 40,000	\$ 440,000	\$ -	\$ -	\$ 480,000
	Hartwell Avenue Compost Site Improvements	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
	Battle Green Streetscape Improvements	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ 900,000
	Westview Cemetery Building Renovations Assessment	\$ -	TBD	\$ -	\$ -	\$ -	TBD
	Public Parking lot Improvement Program	\$ -	\$ 100,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 1,600,000
	Minuteman Bikeway Wayfinding	\$ -	\$ 330,000	\$ -	\$ -	\$ -	\$ 330,000
		\$ 1,300,000	\$ 12,844,581	\$ 10,718,885	\$ 16,845,276	\$ 8,462,744	\$ 50,171,487

DEFERRED FY2016 AND PROPOSED FY2017 TO FY2020 CAPITAL REQUESTS (continued)							
<b>Recreation</b>							
	Athletic Facility Lighting	\$ -	\$ 287,552	\$ -	\$ 483,150	\$ -	\$ 770,702
	Pine Meadows Improvements	\$ -	\$ -	\$ 50,000	\$ -	\$ 75,000	\$ 125,000
	Park and Playground Improvements	\$ -	\$ 68,000	\$ 68,000	\$ 60,000	\$ 75,000	\$ 271,000
	Town Pool Renovation	\$ -	\$ 1,188,308	\$ -	\$ -	\$ -	\$ 1,188,308
	Park Improvements - Athletic Fields	\$ -	\$ 120,000	\$ 150,000	\$ 210,000	\$ 400,000	\$ 880,000
	Pine Meadows Equipment	\$ -	\$ 50,000	\$ -	\$ 52,000	\$ 45,000	\$ 147,000
	ADA Accessibility Study Implementation	\$ -	TBD	\$ -	\$ -	\$ -	TBD
	Park Improvements- Hard Court Resurfacing	\$ -	\$ 55,000	\$ -	\$ 60,000	\$ 40,000	\$ 155,000
	Center Track and Field Reconstruction	\$ -	\$ -	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000
	Recreation Site Assessment of Potential Land Acquisition	\$ -	\$ -	TBD	\$ -	\$ -	TBD
		\$ -	\$ 1,768,860	\$ 3,268,000	\$ 865,150	\$ 635,000	\$ 6,537,010
<b>Schools</b>							
	Food Service Equipment	\$ -	\$ 35,000	\$ 35,000	\$ 35,000	\$ -	\$ 105,000
	School Furniture, Equipment & Systems Program	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000
	Design Funds for School Traffic Safety Mitigation	\$ -	\$ 40,000	\$ -	\$ 40,000	\$ -	\$ 80,000
	LPS Technology Capital Request	\$ -	\$ 1,320,000	\$ 1,320,000	\$ 1,320,000	\$ 1,320,000	\$ 5,280,000
	Additional Time Clock System Funds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ -	\$ 1,495,000	\$ 1,455,000	\$ 1,495,000	\$ 1,420,000	\$ 5,865,000
<b>Town Clerk</b>							
	Archives & Records Management/Records Conservation & Preservation	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 80,000
	Election System Upgrade	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 75,000
	\$	-	\$ 95,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 155,000
	<b>GRAND TOTAL</b>	<b>\$ 1,916,169</b>	<b>\$ 29,105,260</b>	<b>\$ 83,974,433</b>	<b>\$ 23,933,973</b>	<b>\$ 17,202,460</b>	<b>\$ 155,782,296</b>